

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date
7 July 2005 (07.07.2005)

PCT

(10) International Publication Number
WO 2005/062580 A1

(51) International Patent Classification⁷: **H04L 912/28**, H04Q 7/38

(21) International Application Number: PCT/SE2003/002087

(22) International Filing Date: 23 December 2003 (23.12.2003)

(25) Filing Language: English

(26) Publication Language: English

(71) Applicant (*for all designated States except US*): TELEFONAKTIEBOLAGET LM ERICSSON (publ) [SE/SE]; S-164 83 Stockholm (SE).

(72) Inventors; and

(75) Inventors/Applicants (*for US only*): Fodor, Gabor [HU/SE]; Astrakangatan 124, S-165 52 Hässelby (SE). Tuoriniemi, Aimo [FI/FI]; Merivirta 7A15, FIN-02320 Espoo (FI).

(74) Agent: DR LUDWIG BRANN PATENTBYRÅ AB; Box 171 92, S-104 62 Stockholm (SE).

(81) Designated States (*national*): AE, AG, AL, AM, AT (utility model), AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ (utility model), CZ, DE (utility model), DE, DK (utility model), DK, DM, DZ, EC, EE (utility model), EE, EG, ES, FI (utility model), FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK (utility model), SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

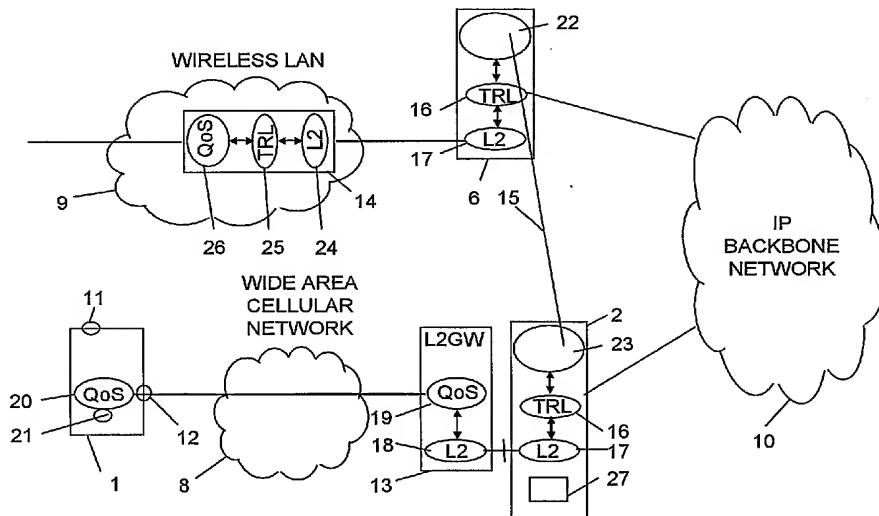
(84) Designated States (*regional*): ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

[Continued on next page]

(54) Title: A METHOD FOR CANDIDATE ACCESS ROUTER CAPABILITY DISCOVERY



(57) **Abstract:** A method of retrieving candidate access router discovery (CARD) information in a user terminal which is present in a many access systems. CARD information is exchanged on an IP control plane between access routers in the access systems, but the user terminal has no IP control plane. In accordance with the invention CARD protocol information is translated into L2 information messages which are transmitted to the user terminal either as extensions to the conventional protocol used for bearer service set up between the user terminal and an access router or as extensions to the conventional protocol used by the individual access system for broadcasting of its system characteristics. In the former case the translated CARD information is transmitted on an L2 bearer service between the current access router and the user terminal and in the latter case the translated information is broadcasted by each access router. The invention also relates to a radio access router and a terminal.

WO 2005/062580 A1



For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.